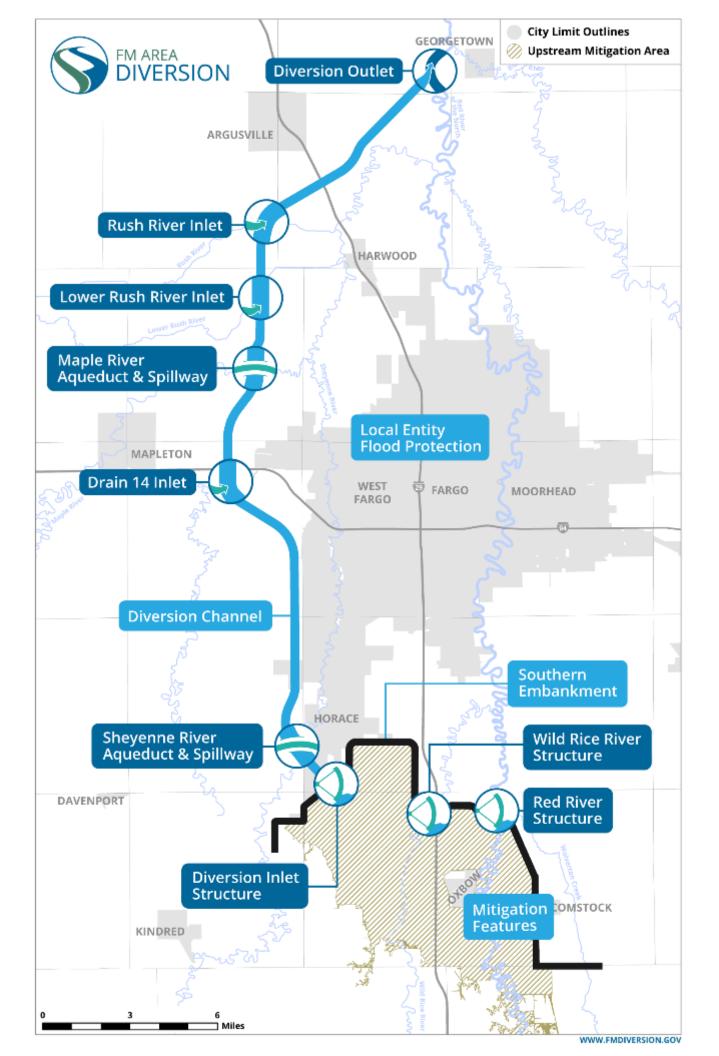
FM Area Diversion











Project Development





\$3+ Billion

infrastructure project for permanent flood protection





180+

utility adjustments

Collaboration across

50+ organizations



- 20 utility companies
- 30 federal, state and local agencies



2,000

permit conditions tracked across

200 permits



70

MOUs/ Agreements

Flooding History

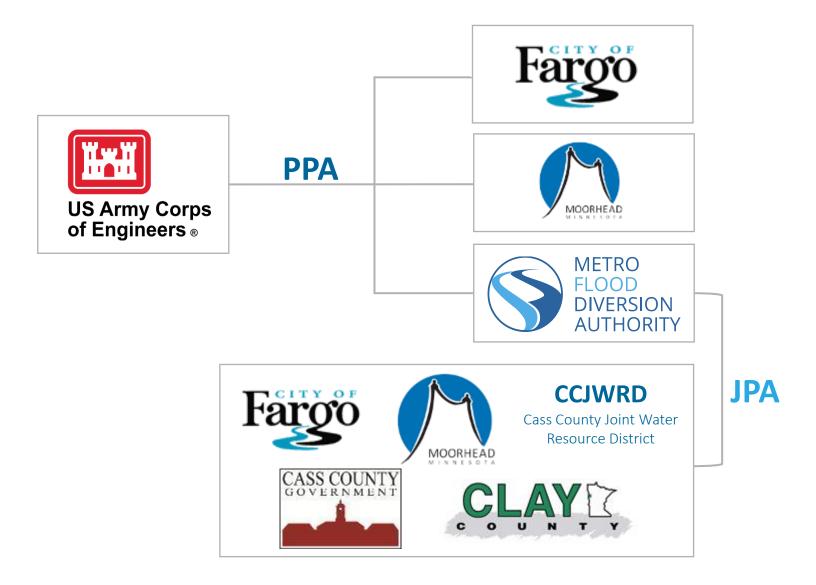


- Red River in Fargo exceeded flood stage every year from 1993-2011
- 235,000 people and their homes, businesses and property – are at risk of catastrophic flooding
- Economic impacts
 - 1997 flood: \$3.5 billion in damages
 - Millions spent fighting floods, including \$8.2M in 2009
 - Flood insurance will not be needed for those protected after the diversion's construction

Fargo's Top 10 Floods

- 1. 40.84' 2009
- 2. 39.72′ 1997
- $3. \quad 39.10' 1897$
- 4. 38.81' 2011
- 5. 37.34′ 1969
- 6. 37.13' 2006
- 7. 36.99' 2010
- 8. 36.69' 2001
- 9. 35.39′ 1989
- 10. 35.04' 2019

Split Delivery Governance Structure



The Project Partnership
Agreement (PPA) is between
the government (USACE) and
non-federal partners (MFDA,
City of Fargo and City of
Moorhead) and serves as the
official agreement marking the
beginning of the FM Area
Diversion.

The Joint Powers Agreement (JPA) is an agreement between Member Entities that establishes duties, responsibilities, and obligations regarding the FM Area Diversion Project.

P3 Structure



Governing Authority

13-member Board of Authority and staff



Joint venture of:







P3 Partner

Responsible for designing, constructing, financing, operating, and maintaining the Stormwater Diversion Channel & Associated Infrastructure



Design & Construction Arm of RRVA

Responsible for design and construction of Stormwater Diversion Channel & Associated Infrastructure

Project Delivery Structure

Stormwater Diversion Channel & Associated Infrastructure





Delivered by the P3

- 30-mile channel
- 2 aqueducts
- Diversion outlet
- 3 railroad crossings
- 14 road crossings

Mitigation Features and Associated Infrastructure





Delivered by MFDA, USACE & City & County Governments

- Cemetery mitigation
- Wetland mitigation
- Local levees
- Flowage easements

Southern Embankment & Associated Infrastructure



Delivered by USACE

- 20-mile earthen embankment
- 3 water control structures
- Interstate bridge & 4-mile road raise
- Road crossings

Local Entity Flood Protection& Associated Infrastructure





Delivered by USACE & City & County Governments

- In-town levees/floodwalls
- Stormwater lift stations
- Property acquisitions
- Road improvements/raises

P3 Overview



Savings & Speed

Using a P3 for the FM Area Diversion project will save about \$330 million in construction costs and deliver the completed project 10 years sooner

Benefits

- MFDA retains ownership and control over operating standards and other requirements
- RRVA, as the private sector partner, delivers innovative technical solutions within MFDA requirements
- The engineer and contractor work collaboratively to lower construction cost and deploy new technology
- MFDA receives a fixed-price bid and RRVA assumes the risks of delay, cost escalation, etc.
- Private entity holds debt and is incentivized to deliver the project in order to receive payment



RRVA, our P3 developer, is a consortium of:







P3 vs. Traditional

2027	Projected Completion \$2.75B*
2028	Completed in 6 years
2029	
2030	



First P3 flood management project in North America

First P3 civil works project with the U.S. Army Corps of **Engineers**



2036

2031

2032

2033

2034

2035

2037 **Alternative** \$3.1B* **Completed in 16 years**